

Project Audit



Project:
Catcoin Mama

March 27, 2022

CATCOIN MAMA

NURTURING CATCOIN TO
GROW TO ITS FULL POTENTIAL



+

Catcoin Mama

▶

Overview

This audit has been prepared for **Catcoin Mama** to review the main aspects of the project to help investors make an informative decision in the research process.

You will find a summarized review of the following main key point:

- Contract's source code
- Project and team
- Website
- Social media & online presence

NOTE: We ONLY consider a project safe if they receive our "Certificate of Trust" NFT. This report only points out any potential red flags found in our analysis. Always do your own research before investing in a project.

Smart Contract Review

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.



"The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal"
– SpyWolf Team

Smart Contract Summary

| | |
|---------------|--|
| Contract Name | CATSMAMA |
| Ticker | CATSMAMA |
| Contract | 0x18d7ABA6E318d1F6BBc76Bc41aFB3e4b0b5bdbA2 |
| Network | Binance smart chain |
| Language | Solidity |
| Tax | Buy: 7% Sell: 7% |
| Total Supply | 1,000,000,000,000,000 |
| Status | Not launched yet |

Current stats

| | |
|-------------|-------------------------|
| Burn | No tokens burned |
| LP Address | Liquidity not added yet |
| Liquidity | Liquidity not added yet |
| MaxTxAmount | No Limit |

Smart Contract Statistics

| | |
|-------------------------|----------------------------|
| Transfer Count | 2 |
| Uniq Senders | 2 |
| Uniq Receivers | 2 |
| Total Amount | 20000000000000000 CATSMAMA |
| Median Transfer Amount | 10000000000000000 CATSMAMA |
| Average Transfer Amount | 10000000000000000 CATSMAMA |
| First transfer date | 2022-03-26 |
| Last transfer date | 2022-03-26 |
| Days tokens Transfer | 1 |

| Issues Checking Status | |
|--|----------|
| Design Logic | Passed ✓ |
| Compiler warnings. | Passed ✓ |
| Private user data leaks | Passed ✓ |
| Timestamp dependence | Passed ✓ |
| Integer Overflow and Underflow | Passed ✓ |
| Race conditions and Reentrancy. Cross-function race conditions | Passed ✓ |
| Possible delays in data delivery | Passed ✓ |
| Oracle calls | Passed ✓ |
| Front running | Passed ✓ |
| DoS with Revert | Passed ✓ |
| DoS with block gas limit | Passed ✓ |
| Methods execution permissions | Passed ✓ |
| Economy model | Passed ✓ |
| The impact of the exchange rate on the logic | Passed ✓ |
| Malicious Event log | Passed ✓ |
| Scoping and Declarations | Passed ✓ |
| Uninitialized storage pointers | Passed ✓ |
| Arithmetic accuracy | Passed ✓ |
| Cross-function race conditions | Passed ✓ |
| Safe Zeppelin module | Passed ✓ |
| Fallback function security | Passed ✓ |

Featured Wallets

| | |
|--------------------|--|
| Owner address | 0x93eD8e6253290A7F4898bA12a9BFb096a13751e2 |
| Development wallet | 0x08A5589a92Ca3c36ad78a6bEA96D8ee92f455DFE |
| Donation wallet | 0x90683e99e14127797b09154145Bd00c2787Cecdc |
| Marketing wallet | 0x5e9f8c4649F956D0317063CD5e94017c5aaCA2D6 |
| LP token address | No liquidity added yet |

Top 3 Unlocked Wallets

| | |
|-----------------|---------------|
| Wallet 1 (100%) | Same as owner |
|-----------------|---------------|

Tokens are not distributed yet

Security Threats

⚠️ `vestPrivateSaleWallets()` function can lock account from selling entire amount of purchased tokens from presale investor for certain period of time. Function can be called once. Included accounts can sell in the following schedule:

- 25% of total purchased presale tokens within 1 week
- 50% of total purchased presale tokens within 2 weeks
- 75% of total purchased presale tokens within 3 weeks
- 100% of total purchased presale tokens after 4 weeks

```
function vestPrivateSaleWallets() external {
    require(!isPresaleComplete, 'Cannot vest after token presale!');
    require(!vestingPerformed, 'Vesting is already performed.');
```

```
    for (uint i = 0; i < privateSaleWallets.length; i++) {
        _vestAccount(privateSaleWallets[i], true);
    }
    vestingPerformed = true;
}

function _vestAccount(address account, bool enable) private {
    if (enable) {
        VestInfo memory vestInfo = VestInfo(
            {vestAmount : balanceOf(account), enabled : true});
        _vests[account] = vestInfo;
    } else {
        _vests[account].enabled = false;
    }
}

function spendVestedTokens(address account, uint256 senderBalance, uint256 amount) internal view {
    if (!_vests[account].enabled || !isPresaleComplete) {
        return;
    }
    VestInfo memory vestInfo = _vests[account];
    uint256 balanceLocked = 0;
    uint256 elapsedTime = block.timestamp - presaleCompletedTimestamp;
    if (elapsedTime >= 4 weeks) {
        balanceLocked = 0;
    } else if (elapsedTime >= 3 weeks) {
        balanceLocked = vestInfo.vestAmount.mul(25).div(100);
    } else if (elapsedTime >= 2 weeks) {
        balanceLocked = vestInfo.vestAmount.mul(50).div(100);
    } else {
        balanceLocked = vestInfo.vestAmount.mul(75).div(100);
    }
    require(senderBalance - amount >= balanceLocked, 'Maximum spend amount exceeded during vesting cycle');
```

```
}
```


Security Threats

Owner can change taxes up to 9% (combined buy+sell=18%)

```
function setTaxBurn(uint16 taxBurn_) public onlyOwner {
    require(!_autoBurnEnabled, "Auto burn not enabled");
    require(taxBurn_ <= 500, 'Must be below 5%');
    uint16 previousTax = taxBurn();
    _taxBurn = taxBurn_;
    ensureTotalFeeBounds();
    emit TaxBurnUpdate(previousTax, taxBurn_);
}

function setTaxDividend(uint16 taxDividend_) public onlyOwner {
    require(taxDividend_ <= 600, 'Must be below 6%');
    require(taxDividend_ >= 200, 'Must be above 2%');
    uint16 previousTax = taxDividend();
    _taxDividend = taxDividend_;
    ensureTotalFeeBounds();
    emit TaxDividendUpdate(previousTax, taxDividend_);
}

function setTaxMarketing(uint16 taxMarketing_) public onlyOwner {
    require(taxMarketing_ <= 500, 'Must be below 5%');
    require(taxMarketing_ >= 100, 'Must be above 1%');
    uint16 previousTax = taxMarketing();
    _taxMarketing = taxMarketing_;
    ensureTotalFeeBounds();
    emit TaxMarketingUpdate(previousTax, taxMarketing_);
}
```

```
function ensureTotalFeeBounds() internal view {
    uint16 totalTax = taxBurn() +
        taxMarketing() +
        taxDonation() +
        taxDevelopment() +
        taxDividend() +
        taxLiquidity();
    require(totalTax <= 900, 'Total tax must be below 9%');
}
```

```
function setTaxDonation(uint16 taxDonation_) public onlyOwner {
    require(taxDonation_ <= 500, 'Must be below 5%');
    require(taxDonation_ >= 100, 'Must be above 1%');
    uint16 previousTax = taxDonation();
    _taxDonation = taxDonation_;
    ensureTotalFeeBounds();
    emit TaxDonationUpdate(previousTax, taxDonation_);
}

function setTaxDevelopment(uint16 taxDevelopment_) public onlyOwner {
    require(taxDevelopment_ <= 500, 'Must be below 5%');
    uint16 previousTax = taxDevelopment();
    _taxDevelopment = taxDevelopment_;
    ensureTotalFeeBounds();
    emit TaxDevelopmentUpdate(previousTax, taxDevelopment_);
}

function setTaxLiquidity(uint16 taxLiquify_) public onlyOwner {
    require(!_autoSwapAndLiquifyEnabled, "Auto swap and liquify not enabled");
    require(taxLiquify_ <= 500, 'Must be below 5%');
    uint16 previousTax = taxLiquidity();
    _taxLiquidity = taxLiquify_;
    ensureTotalFeeBounds();
    emit TaxLiquifyUpdate(previousTax, taxLiquify_);
}
```

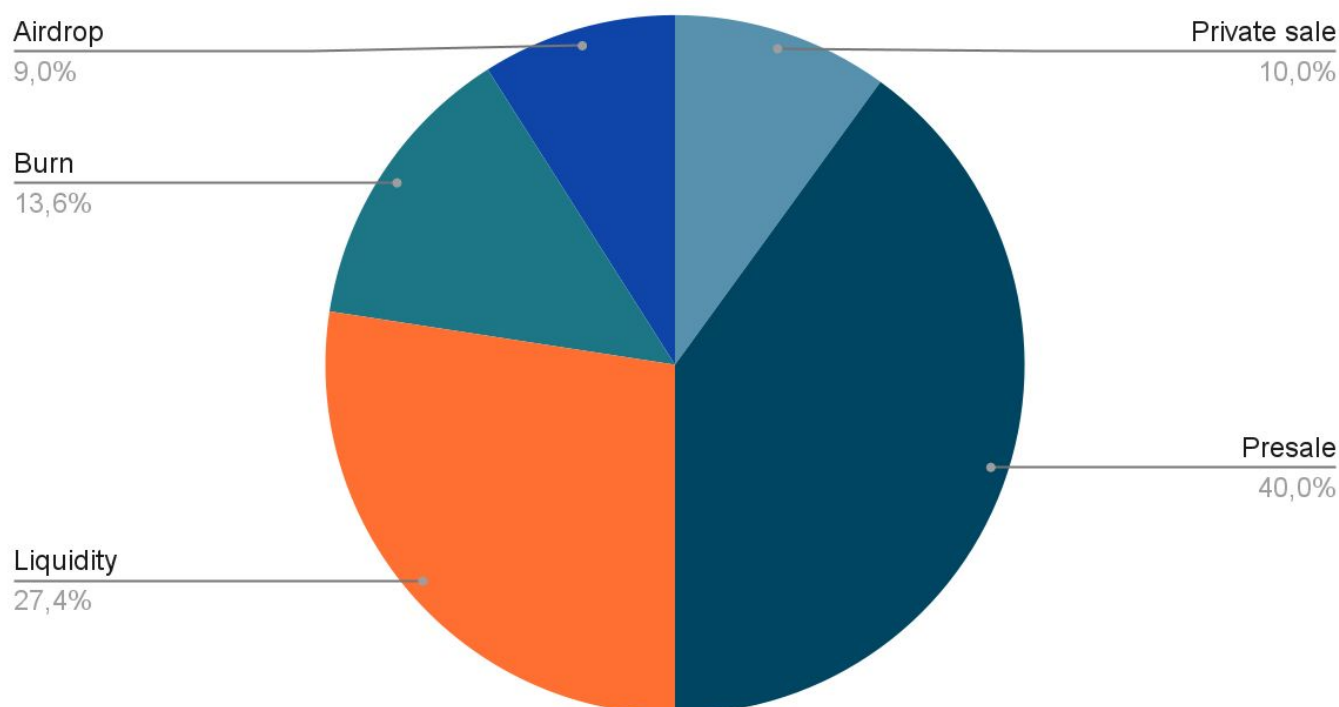
Tokenomics

According to their whitepaper

Total supply 1,000,000,000,000,000 \$CATSMAMA

- Private sale: 10%
- Tokens for liquidity: 27.44%
- Presale: 40%
- Burn: 13.56%
- Airdrop: 9%

Tokens distribution



Current state

Owner hold 100% of total supply, tokens are not distributed yet.

Catcoin Mama Project & Team Review

According to their whitepaper, holders of \$CATSMAMA will receive rewards in \$CATS coin. There will be also NFT collection released.

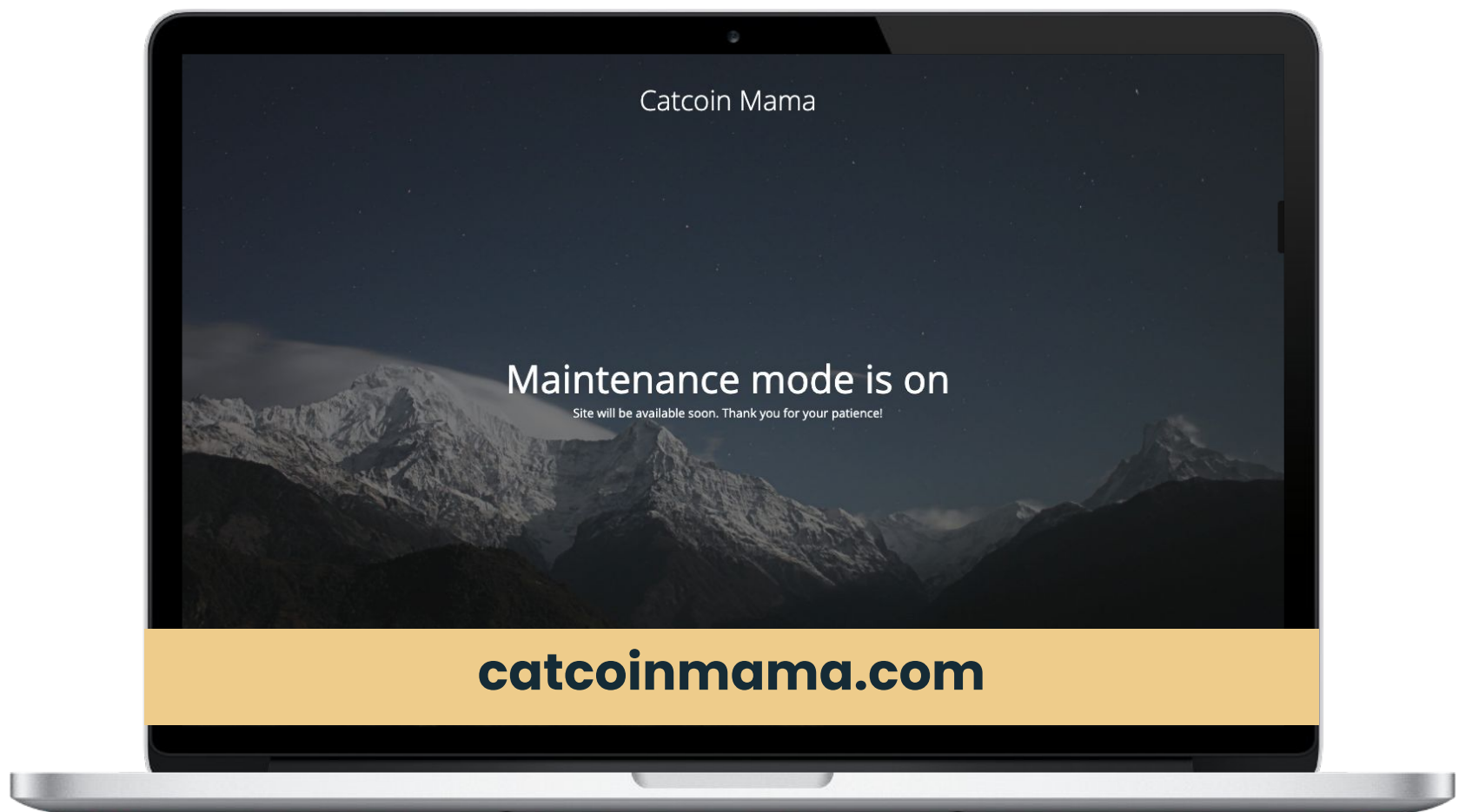
Team:

⚠️ There is no info about the team in their website and socials.

Website Analysis

URL: <https://catcoinmama.com/>

- **Design:** Nice design and color scheme, single page template design.
- **Content:** Informative, no grammar mistakes.
- **Whitepaper:** Well written and explanatory, no grammar mistakes.
- **Roadmap:** Goals set at 4 phases without time frames.
- **Mobile-friendly?** Yes
- **Technical:** SSL certificate present. General SEO check passed.



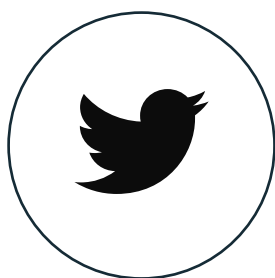
Social Media & Online Presence



Telegram

<https://t.me/CatcoinMama>

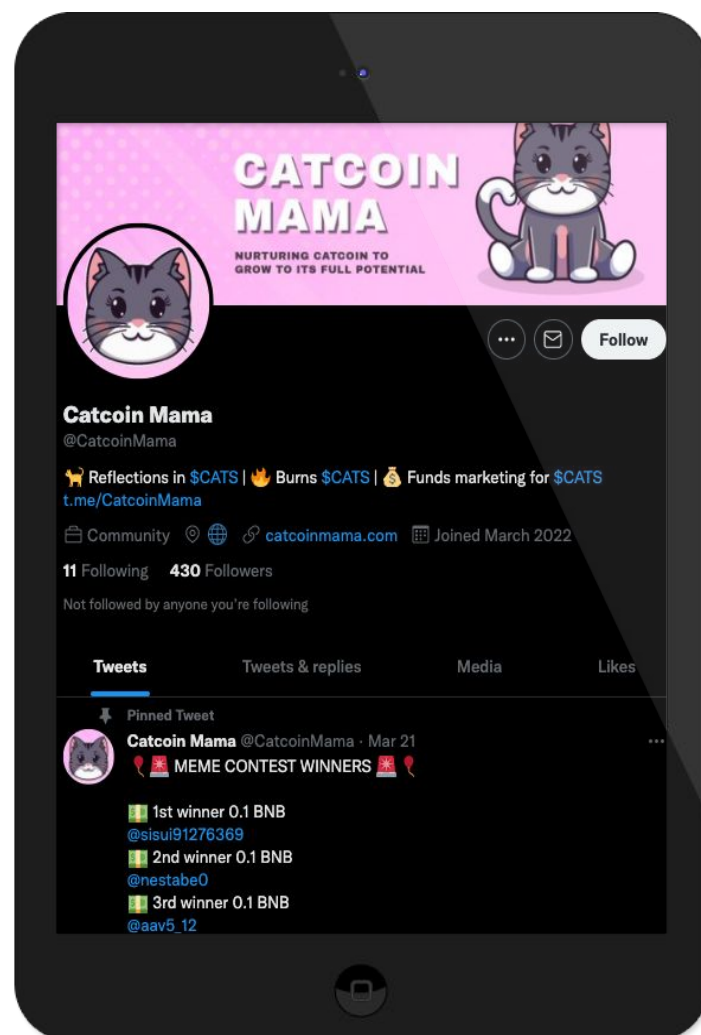
- 186 members
- Few active members
- Active mods



Twitter

<https://twitter.com/CatcoinMama>

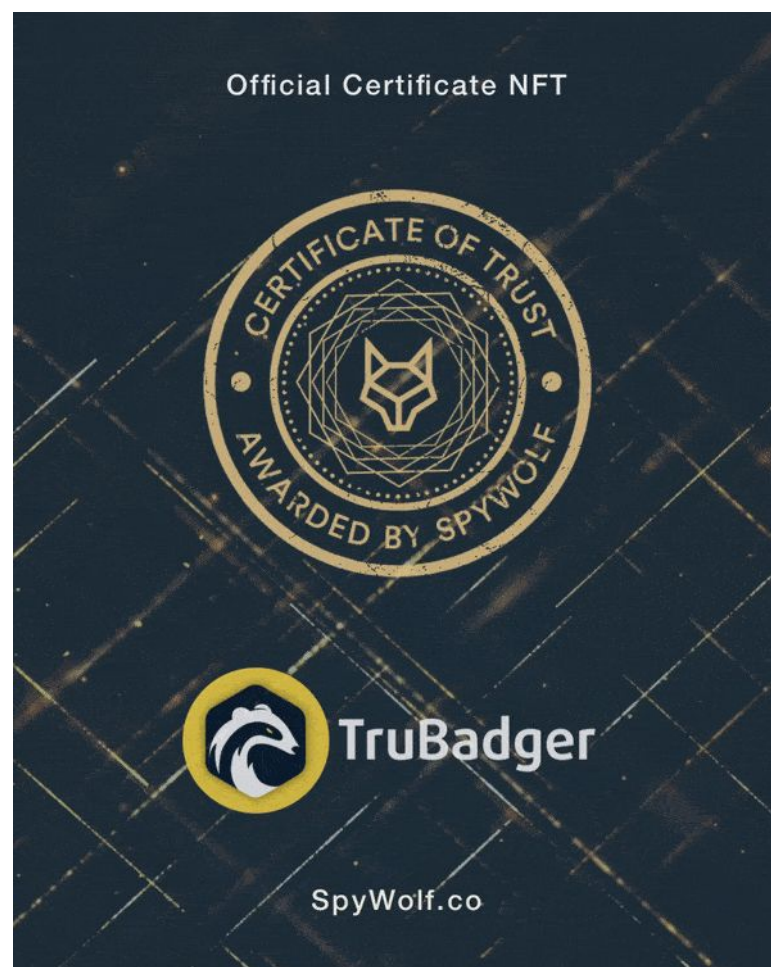
- 431 Followers
- Active



About SpyWolf

SpyWolf is a team of crypto security experts that have been performing full audits for projects for the past months in order to ensure safety on the crypto space. Our goal is to help eliminate monetary fraud through our auditing services and utility token, \$SPY.

- Website: SpyWolf.co
- Portal: SpyWolf.network
- Telegram: [@SpyWolfNetwork](https://t.me/SpyWolfNetwork)
- Twitter: [Twitter.com/SpyWolfNetwork](https://twitter.com/SpyWolfNetwork)



(Sample Certificate NFT for those who pass audit)

If you are interested in finding out more about our audits and Certificate of Trust NFTs, reach out to contact@spywolf.co.

Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.